

# COURSE CATALOG

## Software Engineering

### System analysis and design

Course code	Course name	Duration (days)
BA/PRCT	Business analysis in practice	5
J/OOP	Programming and object-oriented programming – the example of Java language	3

## Internet applications

### Web applications – design and implementation

Course code	Course name	Duration (days)
CQ	Adobe CQ for Java programmers	5
JSF2	Advanced mechanisms of user interface development in the Java Server Faces technology	3
ANGULAR	AngularJS Framework	4
HTML5/BB	Development of Web applications on the basis of HTML5, JavaScript, jQuery and Backbone	5
LARAVEL	Development of Web applications using the Laravel framework	3
HTML5/ANG	Effective development of Web applications using AngularJS, HTML5 and JavaScript	5
EXTJS	ExtJS 4 – Effective development of Web applications	3
EEMI	Legacy Java Enterprise applications to JEE7 migration – best practices	3
SPRING/JSF	Modern Web applications based on Spring Framework, JSF, JPA and AJAX	5
SPRING/WKT	Modern Web applications based on Spring, Hibernate, Apache Wicket and Jetty	5
JEE7/JSF	Modern web applications built with JEE7 (JSF2.2, EJB3.2, JPA2.1, CDI1.1, AJAX)	5
JEE7/ANG	Modern web applications built with JEE7, AngularJS and HTML5	5
SF2	Web Development with Symphony2	3
WICKET	Wicket	2

## GIS and Web mapping

Course code	Course name	Duration (days)
<a href="#">OLAYERS</a>	Development of dynamic maps on Web pages using OpenLayers	2
<a href="#">WEBGIS</a>	Development of WebGIS applications on the basis of PostGIS, Geoserver, OpenLayers and QGIS	3
<a href="#">GEOEXT</a>	GeoExt – creating interactive maps on Web pages	2
<a href="#">QGIS</a>	Introduction to GIS – the QGIS platform example	2
<a href="#">LEAFLET</a>	Leaflet – creating interactive maps on Web pages	2
<a href="#">SPATIAL</a>	Management of spatial data in Oracle Spatial	3
<a href="#">OL3</a>	OpenLayers 3 – creating interactive maps on Web pages	2
<a href="#">POSTGIS</a>	PostGIS as a platform for spatial data storage, processing and analysis	3
<a href="#">GEOSERV</a>	Presentation and sharing of spatial data using GeoServer	3

## Programming languages

### C/C++

Course code	Course name	Duration (days)
<a href="#">C/OOBP</a>	Best practices of object-oriented programming in C++ language	3

### Java

Course code	Course name	Duration (days)
<a href="#">J/BP8</a>	Best practices of object-oriented programming in Java 8	3
<a href="#">J/MT</a>	Developing multithreaded applications in Java	5
<a href="#">J/KRYPT</a>	Java platform-based cryptography in practice	3
<a href="#">SPRING</a>	Spring Framework	2

## .NET

Course code	Course name	Duration (days)
NET/DBG	Advanced debugging in .NET	3

## PHP

Course code	Course name	Duration (days)
LARAVEL	Development of Web applications using the Laravel framework	3
SF2	Web Development with Symfony2	3

## R

Course code	Course name	Duration (days)
R/F	Basic programming in R	2
R/ANA	Introduction to data analysis in R	1

## Scala

Course code	Course name	Duration (days)
SCALA/J	Object-functional programming in Scala language for Java programmers	3

## System programming and embedded systems

Course code	Course name	Duration (days)
PS/LINUX	System programming in Linux	5
PS/WIN	System programming in Windows	5

## SOA/EAI

Courses in Service Oriented Architecture and related areas

Course code	Course name	Duration (days)
AWS	Architecture of cloud-based systems illustrated by Amazon Web Services	2
ESB/M	Enterprise Service Bus – example of Mule ESB	3
ESB/OSB	Enterprise Service Bus – the example of Oracle Service Bus	3
ESB/F	Enterprise Service Bus illustrated by JBoss Fuse and Fabric8	3
ESB/SMIX	Enterprise Service Bus: Apache ServiceMix or JBoss ESB	3
SPRSEC	Implementation of security mechanisms in Web applications using Spring Security, Apache Shiro, JBoss Picketlink	3
GUVNOR	Modeling and management of business rules on the basis of Drools Guvnor for analysts	3
BPEL	Practical aspects of WS-BPEL	2
J/REST	RESTful web services in Java	2

## Mobile technologies

Course code	Course name	Duration (days)
PHGAP	Development of inter-platform mobile applications using PhoneGap and Angular JS	3
IOS	iOS platform programming	5
IOS/START	iOS programming – a quick start	3
IOS/SWIFT	Programming in Swift language on the iOS platform	5
WP/START	Windows Phone programming – a quick start	3

## Software testing

Course code	Course name	Duration (days)
<a href="#">AGILETEST</a>	Agile Testing	3

## ISTQB

Course code	Course name	Duration (days)
<a href="#">ISTQB/AT</a>	ISTQB Agile Tester	2

## Software testing - tools

Course code	Course name	Duration (days)
<a href="#">SOAPUI/F</a>	Automated network service tests using SoapUI	2
<a href="#">SELENIUM</a>	Automation of functional tests of Web applications using Selenium and Robot Framework	3
<a href="#">JMETER</a>	Performance tests for Web applications using Apache JMeter	3
<a href="#">SEC/WEB</a>	Security testing of modern Web applications	5
<a href="#">SOAPUI/ADV</a>	SoapUI – advanced issues	1

## Best practices in programming

Course code	Course name	Duration (days)
<a href="#">PROD</a>	A product-based approach to software development	3
<a href="#">AGILE/DEV</a>	Agile Software Development	2
<a href="#">CHEF</a>	Continuous Delivery using Chef	2
<a href="#">CI/JENKINS</a>	Continuous Integration using a Jenkins server	2
<a href="#">CDDD</a>	Designing of complex domain models using the Domain Driven Design	3
<a href="#">DEVOPS</a>	DevOps – Agile Application Delivery	3
<a href="#">J/DDD</a>	Domain Driven Design (DDD) in the process of application development illustrated by the example of JEE solutions	3

IMPMAP	Effective product development with Impact Mapping	2
J/TOOLS	Essential development tools	3
GRADLE/START	Gradle – quick start	2
J/KRYPT	Java platform-based cryptography in practice	3
SBE	Specification by Example	2
J/TEST	Testing of Java and Java Enterprise technology based applications	2
GIT	Version control with Git	2
LEGACY	Working with Legacy Code	3
REFAKT	Writing better code by using refactoring techniques and design patterns	3

## Providing high efficiency

Course code	Course name	Duration (days)
DB-OPT	Development of effective database applications based on JEE and selected database system (PostgreSQL, MySQL, Oracle, DB/2, MSSQL)	3
DIST	Ensuring high availability of Web applications on the basis of Spring, Terracotta, HA-JDBC and open database systems	2